

WEST Search History

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DATE: Wednesday, January 10, 2007

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	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L5	trichoderma same L4	5
<input type="checkbox"/>	L4	substitution same L3	26
<input type="checkbox"/>	L3	(modif\$4 or mutant or variant) same L2	283
<input type="checkbox"/>	L2	(gene or sequence or polynulceotide or clone or recombinant) same L1	1133
<input type="checkbox"/>	L1	(xylanase or (endo-1,4-beta-xylanase) or (1,4-beta-D-xylan with xylanohydrolase))	3779

END OF SEARCH HISTORY

=> index bioscience medicine

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:13:05 ON 10 JAN 2007

71 FILES IN THE FILE LIST IN STNINDEX

=> S (xylanase or (endo-1,4-beta-xylanase) or (1,4-beta-D-xylan (w) xylanohydrolase))

1520 FILE AGRICOLA
31 FILE ANABSTR
79 FILE ANTE
7 FILE AQUALINE
72 FILE AQUASCI
1436 FILE BIOENG
4110 FILE BIOSIS
2653 FILE BIOTECHABS
2653 FILE BIOTECHDS
1363 FILE BIOTECHNO
13 FILES SEARCHED...
2279 FILE CABA
7346 FILE CAPLUS
874 FILE CEABA-VTB
29 FILE CIN
111 FILE CONFSCI
13 FILE CROPB
20 FILE CROPU
3 FILE DDFB
10 FILE DDFU
3568 FILE DGENE
168 FILE DISSABS
3 FILE DRUGB
10 FILE DRUGU
17 FILE EMBAL
1600 FILE EMBASE
1765 FILE ESBIODBASE
30 FILES SEARCHED...
8 FILE FOREGE
490 FILE FROSTI
1298 FILE FSTA
2103 FILE GENBANK
4 FILE HEALSAFE
568 FILE IFIPAT
583 FILE JICST-EPLUS
1822 FILE LIFESCI
1526 FILE MEDLINE
42 FILE NTIS
45 FILES SEARCHED...
1 FILE NUTRACEUT
18 FILE OCEAN
2326 FILE PASCAL
48 FILES SEARCHED...
24 FILE PHIN
110 FILE PROMT
4 FILE RDISCLOSURE
3751 FILE SCISEARCH
819 FILE TOXCENTER
1759 FILE USPATFULL
61 FILES SEARCHED...
237 FILE USPAT2
404 FILE VETU
13 FILE WATER
1087 FILE WPIDS
7 FILE WPIFV
67 FILES SEARCHED...
1087 FILE WPINDEX

3 FILE IPA
8 FILE NAPRALERT
50 FILE NLDB

54 FILES HAVE ONE OR MORE ANSWERS, 71 FILES SEARCHED IN STNINDEX

L1 QUE (XYLANASE OR (ENDO-1,4-BETA-XYLANASE) OR
(1,4-BETA-D-XYLAN (W) XYLANOHYDROLASE))

=> d rank

F1 7346 CAPLUS
F2 4110 BIOSIS
F3 3751 SCISEARCH
F4 3568 DGENE
F5 2653 BIOTECHABS
F6 2653 BIOTECHDS
F7 2326 PASCAL
F8 2279 CABA
F9 2103 GENBANK
F10 1822 LIFESCI
F11 1765 ESBIODBASE
F12 1759 USPATFULL
F13 1600 EMBASE
F14 1526 MEDLINE
F15 1520 AGRICOLA
F16 1436 BIOENG
F17 1363 BIOTECHNO
F18 1298 FSTA
F19 1087 WPIDS
F20 1087 WPINDEX
F21 874 CEABA-VTB
F22 819 TOXCENTER
F23 583 JICST-EPLUS
F24 568 IFIPAT
F25 490 FROSTI

=> file f1-f3, f5, f7-f8, f10, f12, f14-f16, f19

FILE 'CAPLUS' ENTERED AT 11:17:17 ON 10 JAN 2007
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FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

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CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 11:17:17 ON 10 JAN 2007

FILE 'AGRICOLA' ENTERED AT 11:17:17 ON 10 JAN 2007

FILE 'BIOENG' ENTERED AT 11:17:17 ON 10 JAN 2007
COPYRIGHT (C) 2007 Cambridge Scientific Abstracts (CSA)

FILE 'WPIDS' ENTERED AT 11:17:17 ON 10 JAN 2007
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=> S L1

4 FILES SEARCHED...

L2 28962 L1

=> S (gene or sequence or polynucleotide or clone or recombinant)(s) L2

L3 5184 (GENE OR SEQUENCE OR POLYNULCEOTIDE OR CLONE OR RECOMBINANT)(S)
L2

=> S (modif? or mutant# or variant#)(s) L3

L4 730 (MODIF? OR MUTANT# OR VARIANT#)(S) L3

=> S (addition or deletion or substitution)(s)L4

L5 178 (ADDITION OR DELETION OR SUBSTITUTION)(S) L4

=> S substitution(s)L4

L6 108 SUBSTITUTION(S) L4

=> S trichoderma(s) L6

L7 66 TRICHODERMA(S) L6

=> S trichoderma(s) L5

L8 70 TRICHODERMA(S) L5

=> duprem L8

DUPREM IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> dup rem L8

PROCESSING COMPLETED FOR L8

L9 69 DUP REM L8 (1 DUPLICATE REMOVED)

=> dup rem L7

PROCESSING COMPLETED FOR L7

L10 65 DUP REM L7 (1 DUPLICATE REMOVED)

=> d ibib abs L9 1-69

L9 ANSWER 1 OF 69 USPATFULL on STN

ACCESSION NUMBER: 2006:315223 USPATFULL <<LOGINID::20070110>>

TITLE: Modified enzymes, methods to produce modified enzymes
and use thereof

INVENTOR(S): Clarkson, Kathleen A., Palo Alto, CA, UNITED STATES
Fenel, Fred, Helsinki, FINLAND

NUMBER KIND DATE

PATENT INFORMATION: US 2006270006 A1 20061130
APPLICATION INFO.: US 2004-565954 A1 20040910 (10)
WO 2004-US29575 20040910
20060731 PCT 371 date

NUMBER DATE

PRIORITY INFORMATION: US 2003-503251P 20030915 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Lynn Marcus Wyner, Genencor International Inc, 925 Page
Mill Road, Palo Alto, CA, 94304-1013, US

NUMBER OF CLAIMS: 32

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 21 Drawing Page(s)

LINE COUNT: 1725

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is directed to modified xylanases having increased stability in harsh industrial environments, such as increased pH and/or temperature.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 2 OF 69 USPATFULL on STN

ACCESSION NUMBER: 2006:124709 USPATFULL <<LOGINID::20070110>>

TITLE: Promoters and proteins from Clostridium thermocellum and uses thereof

INVENTOR(S): Wu, J.H. David, Pittsford, NY, UNITED STATES
Newcomb, Michael, Rochester, NY, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2006105442 A1 20060518
APPLICATION INFO.: US 2005-271287 A1 20051110 (11)

NUMBER DATE

PRIORITY INFORMATION: US 2004-626686P 20041110 (60)
US 2004-626661P 20041110 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Noreen L. Connolly, Nixon Peabody LLP, Clinton Square,
P.O. Box 31051, Rochester, NY, 14603-1051, US

NUMBER OF CLAIMS: 81

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 17 Drawing Page(s)

LINE COUNT: 2591

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to an inducible and a high expression nucleic acid promoter isolated from Clostridium thermocellum. These promoters are useful for directing expression of a protein or polypeptide encoded by a nucleic acid molecule operably associated with the nucleic acid promoters. The present invention also relates to nucleic acid constructs including the C. thermocellum promoters, and expression vectors and hosts containing such nucleic acid constructs. The present invention also relates to protein isolated from Clostridium thermocellum, including a repressor protein. The present invention also provides methods of using the isolated promoters and proteins from Clostridium thermocellum, including methods for directing inducible in vitro and in vivo expression of a protein or polypeptide in a host, and methods of producing ethanol from a cellulosic biomass.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 69 USPATFULL on STN DUPLICATE 1

ACCESSION NUMBER: 2005:247215 USPATFULL <<LOGINID::20070110>>

TITLE: Modified xylanases exhibiting improved expression

INVENTOR(S): White, Theresa, Ottawa, CANADA
Giroux, Genevieve R., Gloucester, CANADA
Wallace, Katie E. A., Nepean, CANADA

PATENT ASSIGNEE(S): IOGEN BIO-PRODUCTS CORPORATION (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005214410 A1 20050929
APPLICATION INFO.: US 2005-88725 A1 20050325 (11)

NUMBER DATE

PRIORITY INFORMATION: US 2004-556061P 20040325 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W.,
SUITE 800, WASHINGTON, DC, 20037, US

NUMBER OF CLAIMS: 39

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 10 Drawing Page(s)

LINE COUNT: 2613

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A modified Family 11 xylanase enzyme comprising a sequence that introduces a functional consensus glycosylation site is provided. Non-limiting examples of introduced glycosylation sites include mutation of the amino acid at position 34, 131, 180, 182, or a combination thereof, to an asparagine. The indicated amino acid position in the Family 11 xylanase is determined from sequence alignment of the xylanase of interest with that of a *Trichoderma reesei* xylanase II amino acid sequence. The introduced consensus glycosylation site facilitates increased expression efficiency of the modified xylanase when compared to the expression efficiency of a corresponding xylanase from which the modified xylanase was derived, using similar host strains and growth conditions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 69 USPATFULL on STN

ACCESSION NUMBER: 2005:215706 USPATFULL <<LOGINID::20070110>>

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

INVENTOR(S): Ashkenazi, Avi J., San Mateo, CA, UNITED STATES

Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES

Desnoyers, Luc, San Francisco, CA, UNITED STATES

Eaton, Dan L., San Rafael, CA, UNITED STATES

Ferrara, Napoleone, San Francisco, CA, UNITED STATES

Fong, Sherman, Alameda, CA, UNITED STATES

Gerber, Hanspeter, San Francisco, CA, UNITED STATES

Gerritsen, Mary E., San Mateo, CA, UNITED STATES

Goddard, Audrey, San Francisco, CA, UNITED STATES

Godowski, Paul J., Hillsborough, CA, UNITED STATES

Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES

Gurney, Austin L., Belmont, CA, UNITED STATES

Klavin, Ivar J., Lafayette, CA, UNITED STATES

Napier, Mary A., Hillsborough, CA, UNITED STATES

Pan, James, Belmont, CA, UNITED STATES

Paoni, Nicholas F., Belmont, CA, UNITED STATES

Roy, Margaret Ann, San Francisco, CA, UNITED STATES

Stewart, Timothy A., San Francisco, CA, UNITED STATES

Tumas, Daniel, Orinda, CA, UNITED STATES

Watanabe, Colin K., Moraga, CA, UNITED STATES

Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES

Wood, William I., Hillsborough, CA, UNITED STATES

Zhang, Zemin, Foster City, CA, UNITED STATES

PATENT ASSIGNEE(S): Genentech, Inc., South San Francisco, CA, UNITED STATES
(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005187382 A1 20050825

APPLICATION INFO.: US 2004-950374 A1 20040923 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-992521, filed on 14

Nov 2001, ABANDONED Continuation of Ser. No. US

2001-941992, filed on 28 Aug 2001, PENDING Continuation

of Ser. No. WO 2000-US8439, filed on 30 Mar 2000,

PENDING Continuation-in-part of Ser. No. US 380137,

ABANDONED A 371 of International Ser. No. WO

1999-US12252, filed on 2 Jun 1999

NUMBER DATE

PRIORITY INFORMATION: US 1998-97979P 19980826 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HELLER EHRMAN LLP, 275 MIDDLEFIELD ROAD, MENLO PARK,
CA, 94025-3506, US

NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 330 Drawing Page(s)
LINE COUNT: 30348

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 69 USPATFULL on STN

ACCESSION NUMBER: 2005:131264 USPATFULL <<LOGINID::20070110>>

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

INVENTOR(S): Ashkenazi, Avi J., San Mateo, CA, UNITED STATES

Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES

Desnoyers, Luc, San Francisco, CA, UNITED STATES

Eaton, Dan L., San Rafael, CA, UNITED STATES

Ferrara, Napoleone, San Francisco, CA, UNITED STATES

Fong, Sherman, Alameda, CA, UNITED STATES

Gerber, Hanspeter, San Francisco, CA, UNITED STATES

Gerritsen, Mary E., San Mateo, CA, UNITED STATES

Goddard, Audrey, San Francisco, CA, UNITED STATES

Godowski, Paul J., Hillsborough, CA, UNITED STATES

Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES

Gurney, Austin L., Belmont, CA, UNITED STATES

Klavin, Ivar J., Lafayette, CA, UNITED STATES

Napier, Mary A., Hillsborough, CA, UNITED STATES

Pan, James, Belmont, CA, UNITED STATES

Paoni, Nicholas F., Belmont, CA, UNITED STATES

Roy, Margaret Ann, San Francisco, CA, UNITED STATES

Stewart, Timothy A., San Francisco, CA, UNITED STATES

Tumas, Daniel, Orinda, CA, UNITED STATES

Watanabe, Colin K., Moraga, CA, UNITED STATES

Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES

Wood, William I., Hillsborough, CA, UNITED STATES

Zhang, Zemin, Foster City, CA, UNITED STATES

PATENT ASSIGNEE(S): Genentech, Inc., South San Francisco, CA, UNITED STATES
(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005112725 AI 20050526

APPLICATION INFO.: US 2004-978255 AI 20041029 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-989862, filed on 19

Nov 2001, PENDING Continuation of Ser. No. US

2001-941992, filed on 28 Aug 2001, PENDING Continuation

of Ser. No. WO 2000-US8439, filed on 30 Mar 2000,

PENDING Continuation-in-part of Ser. No. US 380137,

ABANDONED A 371 of International Ser. No. WO

1999-US12252, filed on 2 Jun 1999

NUMBER DATE

PRIORITY INFORMATION: US 1999-141037P 19990623 (60)

US 1998-88810P 19980610 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HELLER EHRMAN WHITE & MCAULIFFE LLP, 275 MIDDLEFIELD
ROAD, MENLO PARK, CO, 94025-3506, US

NUMBER OF CLAIMS: 24

EXEMPLARY CLAIM: 1-118

NUMBER OF DRAWINGS: 330 Drawing Page(s)

LINE COUNT: 38226

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 69 USPATFULL on STN

ACCESSION NUMBER: 2005:223268 USPATFULL <<LOGINID::20070110>>

TITLE: Enhanced expression of proteins in genetically modified fungi

INVENTOR(S): White, Theresa C., Ottawa, CANADA

McHugh, Sylvia, Gloucester, CANADA

Hindle, Christopher D., Gloucester, CANADA

PATENT ASSIGNEE(S): Iogen Energy Corporation, Ontario, CANADA (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6939704 B1 20050906

APPLICATION INFO.: US 1999-392476 19990909 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-37524, filed on 10 Mar 1998, Pat. No. US 6015703

DOCUMENT TYPE: Utility

FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Wax, Robert A.

LEGAL REPRESENTATIVE: Fitzpatrick, Cella, Harper & Scinto

NUMBER OF CLAIMS: 27

EXEMPLARY CLAIM: 11

NUMBER OF DRAWINGS: 15 Drawing Figure(s); 11 Drawing Page(s)

LINE COUNT: 2652

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to increasing the production of a protein of interest from a fungal host. The invention discloses nucleotide sequences comprising, a regulatory region in operative association with xylanase secretion sequence and a gene of interest. The gene of interest encodes a protein selected from a pharmaceutical, nutraceutical, industrial, animal feed, food additive and an enzyme. Preferably, the gene of interest encodes a cellulase, hemicellulase, a lignin degrading enzyme, pectinase, protease, or peroxidase. The present invention also relates to vectors and hosts comprising these nucleic acid sequences, and to methods for the production of a protein of interest.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 7 OF 69 USPATFULL on STN

ACCESSION NUMBER: 2003:324681 USPATFULL <<LOGINID::20070110>>

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

INVENTOR(S): Ashkenazi, Avi J., San Mateo, CA, UNITED STATES

Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES

Desnoyers, Luc, San Francisco, CA, UNITED STATES

Eaton, Dan L., San Rafael, CA, UNITED STATES

Ferrara, Napoleone, San Francisco, CA, UNITED STATES

Fong, Sherman, Alameda, CA, UNITED STATES

Gerber, Hanspeter, San Francisco, CA, UNITED STATES

Gerritsen, Mary E., San Mateo, CA, UNITED STATES

Goddard, Audrey, San Francisco, CA, UNITED STATES

Godowski, Paul J., Hillsborough, CA, UNITED STATES

Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES

Gurney, Austin L., Belmont, CA, UNITED STATES

Kljavin, Ivar J., Lafayette, CA, UNITED STATES

Napier, Mary A., Hillsborough, CA, UNITED STATES

Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PATENT ASSIGNEE(S): Genentech, Inc. (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2003228656 A1 20031211
APPLICATION INFO.: US 2001-992643 A1 20011114 (9)
RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-941992, filed on 28
Aug 2001, PENDING Continuation of Ser. No. WO
2000-US8439, filed on 30 Mar 2000, PENDING Continuation
of Ser. No. WO 1999-US30095, filed on 16 Dec 1999,
PENDING Continuation of Ser. No. US 380137, PENDING A
371 of International Ser. No. WO 1999-US12252, filed on
2 Jun 1999, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 1998-113296P 19981222 (60)
US 1998-88742P 19980610 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione,
NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive,
Chicago, IL, 60611-5599

NUMBER OF CLAIMS: 118
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 330 Drawing Page(s)
LINE COUNT: 32378

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic
acid molecules encoding those polypeptides. Also provided herein are
vectors and host cells comprising those nucleic acid sequences, chimeric
polypeptide molecules comprising the polypeptides of the present
invention fused to heterologous polypeptide sequences, antibodies which
bind to the polypeptides of the present invention and to methods for
producing the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 8 OF 69 USPATFULL on STN

ACCESSION NUMBER: 2003:324680 USPATFULL <<LOGINID::20070110>>

TITLE: Secreted and transmembrane polypeptides and nucleic
acids encoding the same

INVENTOR(S): Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED
STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES

Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William L., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PATENT ASSIGNEE(S): Genentech, Inc. (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2003228655 A1 20031211
US 7070955 B2 20060704
APPLICATION INFO.: US 2001-989733 A1 20011120 (9)
RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-941992, filed on 28
Aug 2001, PENDING Continuation of Ser. No. WO
2000-US8439, filed on 30 Mar 2000, PENDING Continuation
of Ser. No. US 380137, PENDING A 371 of International
Ser. No. WO 1999-US12252, filed on 2 Jun 1999, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 1999-141037P 19990623 (60)
US 1998-95916P 19980810 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione,
NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive,
Chicago, IL, 60611-5599
NUMBER OF CLAIMS: 118
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 330 Drawing Page(s)
LINE COUNT: 32385
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic
acid molecules encoding those polypeptides. Also provided herein are
vectors and host cells comprising those nucleic acid sequences, chimeric
polypeptide molecules comprising the polypeptides of the present
invention fused to heterologous polypeptide sequences, antibodies which
bind to the polypeptides of the present invention and to methods for
producing the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 69 USPATFULL on STN
ACCESSION NUMBER: 2003:318615 USPATFULL <<LOGINID::20070110>>
TITLE: Secreted and transmembrane polypeptides and nucleic
acids encoding the same

INVENTOR(S): Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED
STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES

Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PATENT ASSIGNEE(S): Genentech, Inc. (U.S. corporation)

NUMBER	KIND	DATE

PATENT INFORMATION: US 2003224358 A1 20031204		
US 7112656	B2	20060926
APPLICATION INFO.: US 2001-997641 A1 20011115 (9)		
RELATED-APPLN. INFO.: Continuation of Ser. No. US 2001-941992, filed on 28		
Aug 2001, PENDING		

NUMBER	DATE

PRIORITY INFORMATION: WO 1997-US20069 19971105	
WO 1998-US19330	19980916
WO 1998-US19437	19980917
WO 1998-US21141	19981007
WO 1998-US25108	19981201
WO 1999-US106	19990105
WO 1999-US5028	19990308
WO 1999-US12252	19990602
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WO 1999-US21547	19990915
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US 1997-49787P	19970616 (60)
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US 1998-97979P	19980826 (60)
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US 1998-100634P	19980916 (60)
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US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HELLER EHRMAN WHITE & MCAULIFFE LLP, WO, 275
MIDDLEFIELD ROAD, MENLO PARK, CO, 94025-3506

NUMBER OF CLAIMS: 118

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 330 Drawing Page(s)

LINE COUNT: 32338

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic

acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 69 USPATFULL on STN

ACCESSION NUMBER: 2003:312259 USPATFULL <<LOGINID::20070110>>

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

INVENTOR(S): Ashkenazi, Avi J., San Mateo, CA, UNITED STATES

Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES

Desnoyers, Luc, San Francisco, CA, UNITED STATES

Eaton, Dan L., San Rafael, CA, UNITED STATES

Ferrara, Napoleone, San Francisco, CA, UNITED STATES

Fong, Sherman, Alameda, CA, UNITED STATES

Gerber, Hanspeter, San Francisco, CA, UNITED STATES

Gerritsen, Mary E., San Mateo, CA, UNITED STATES

Goddard, Audrey, San Francisco, CA, UNITED STATES

Godowski, Paul J., Hillsborough, CA, UNITED STATES

Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES

Gurney, Austin L., Belmont, CA, UNITED STATES

Kljavin, Ivar J., Pacifica, CA, UNITED STATES

Napier, Mary A., Hillsborough, CA, UNITED STATES

Pan, James, Belmont, CA, UNITED STATES

Paoni, Nicholas F., Belmont, CA, UNITED STATES

Roy, Margaret Ann, San Francisco, CA, UNITED STATES

Stewart, Timothy A., San Francisco, CA, UNITED STATES

Tumas, Daniel, Orinda, CA, UNITED STATES

Watanabe, Colin K., Moraga, CA, UNITED STATES

Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES

Wood, William I., Hillsborough, CA, UNITED STATES

Zhang, Zemin, Foster City, CA, UNITED STATES

PATENT ASSIGNEE(S): Genentech, Inc. (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2003219856 A1 20031127

APPLICATION INFO.: US 2002-219538 A1 20020814 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-941992, filed on 28

Aug 2001, PENDING Continuation of Ser. No. WO

2000-US8439, filed on 30 Mar 2000, PENDING Continuation

of Ser. No. WO 1999-US12252, filed on 2 Jun 1999,

PENDING

NUMBER DATE

PRIORITY INFORMATION: US 1999-141037P 19990623 (60)

US 1998-92182P 19980709 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Ginger R. Dreger, Knobbe Martens Olson & Bear, 16th Floor, 620 Newport Center Drive, Newport Beach, CA, 92660

NUMBER OF CLAIMS: 118

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 330 Drawing Page(s)

LINE COUNT: 32340

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for

producing the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 66 OF 69 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER: 2002-171813 [22] WPIDS

DOC. NO. CPI: C2002-053231 [22]

TITLE: Producing xylitol comprises culturing a microorganism
having xylanolytic activity and a microorganism capable
of converting pentose sugar to xylitol, in medium
comprising polymer or oligomer materials containing
pentose sugars

DERWENT CLASS: D16; D17; E17

INVENTOR: HEIKKILA H; HEIKKILAE H; ILMEN M; OJAMO H; PENTTILA M;
PENTTILAE M; SARKKI M; UUSITALO J; VEHKOMAEKI M;
VEHKOMAKI M

PATENT ASSIGNEE: (DANI-N) DANISCO SWEETENERS OY; (XYRO-N) XYROFIN OY

COUNTRY COUNT: 95

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2002006504	A1	20020124 (200222)*	EN	46	[3]	
AU 2001082174	A	20020130 (200236)	EN			
EP 1301618	A1	20030416 (200328)	EN			
US 20040014185	A1	20040122 (200407)	EN			

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2002006504	A1	WO 2001-FI663	20010711
US 20040014185	A1 Provisional	US 2000-217926P	20000713
AU 2001082174	A	AU 2001-82174	20010711
EP 1301618	A1	EP 2001-960775	20010711
EP 1301618	A1	WO 2001-FI663	20010711
US 20040014185	A1 CIP of	WO 2001-FI663	20010711
US 20040014185	A1	US 2003-341220	20030113

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2001082174	A	Based on WO 2002006504 A
EP 1301618	A1	Based on WO 2002006504 A

PRIORITY APPLN. INFO: US 2000-217926P 20000713

WO 2001-FI663 20010711

US 2003-341220 20030113

AN 2002-171813 [22] WPIDS

AB WO 2002006504 A1 UPAB: 20050525

NOVELTY - Producing (M) xylitol involves culturing a microorganism having xylanolytic activity, and a microorganism capable of converting a pentose sugar to xylitol, in a medium comprising polymer or oligomer materials containing pentose sugars to enable hydrolysis of the polymers or oligomers by the microorganism, bioconverting the hydrolysis products obtained, and recovering xylitol.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a microorganism (I) which has xylanolytic activity and which has been genetically modified to enhance its xylanolytic activity, and to reduce its xylitol metabolism.

USE - (M) is useful for production of xylitol (claimed).

ADVANTAGE - (M) enables the neutralization of a wide variety of raw materials. Due to its xylanolytic activity, the microorganisms used as a production organism is itself able to hydrolyze even complex xylan-containing raw materials. The microorganisms are capable of carrying out all the necessary reactions, from the hydrolysis of the raw material, by the metabolic conversion of the hydrolysis products, to the desired end product. The genetic modification of the microorganisms, irrespective of

whether it involves overexpression of genes encoding for xylanolytic activity, or blocking or inactivation of genes responsible for the further metabolism of xylitol, or both, leads to enhanced xylose production. The excess of xylose produced by the increased xylanolytic activity of the cells is further metabolized into xylitol, thus leading to enhanced xylitol production. The overall xylitol production rate thus by far exceeds the rate achieved by the use of conventional microorganisms.

L9 ANSWER 67 OF 69 USPATFULL on STN
ACCESSION NUMBER: 2000:7204 USPATFULL <<LOGINID::20070110>>
TITLE: Genetic constructs and genetically modified microbes
for enhanced production of beta-glucosidase
INVENTOR(S): White, Theresa C., Ottawa, Canada
Hindle, Christopher D., Ottawa, Canada
PATENT ASSIGNEE(S): Iogen Corporation, Ottawa, Canada (non-U.S.
corporation).

NUMBER	KIND	DATE

PATENT INFORMATION:	US 6015703	20000118
APPLICATION INFO.:	US 1998-37524	19980310 (9)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Wax, Robert A.	
LEGAL REPRESENTATIVE:	Fitzpatrick, Cella, Harper & Scinto	
NUMBER OF CLAIMS:	29	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	1680	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to the genetic modification of a microbe to enhance its production of an enzyme, beta-glucosidase, that is important in the cellulose conversion process. The inventors have discovered genetic constructs that, when expressed in recombinant microbes, dramatically increase the amount of beta-glucosidase produced relative to untransformed microbes. The genetic constructs comprise a promoter, a xylanase secretion signal, and a mature beta-glucosidase coding region. The increased level of beta-glucosidase significantly increases the efficiency of hydrolysis of cellulose to glucose by cellulase enzymes, thereby enhancing the production of fuel ethanol from cellulose.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 68 OF 69 USPATFULL on STN
ACCESSION NUMBER: 1999:15764 USPATFULL <<LOGINID::20070110>>
TITLE: Modification of xylanase to improve thermophilicity,
alkophilicity and thermostability
INVENTOR(S): Sung, Wing L., Gloucester, Canada
Yaguchi, Makoto, Ottawa, Canada
Ishikawa, Kazuhiko, Tsukuba, Japan
PATENT ASSIGNEE(S): National Research Council of Canada, Ottawa, Canada
(non-U.S. corporation)

NUMBER	KIND	DATE

PATENT INFORMATION:	US 5866408	19990202
APPLICATION INFO.:	US 1998-47370	19980325
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-709912, filed on 9 Sep 1996, now patented, Pat. No. US 5759840	
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Carlson, Karen Cochrane	
ASSISTANT EXAMINER:	Stole, Einar	
LEGAL REPRESENTATIVE:	Fitzpatrick, Cella, Harper & Scinto	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 26 Drawing Page(s)	
LINE COUNT:	2501	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Producing a ***xylanase*** enzyme of superior performance in the

bleaching of pulp. More specifically, a ***modified***
 xylanase of Family 11 that shows improved thermophilicity,
 alkalophilicity, and thermostability as compared to the natural
 xylanase. The ***modified*** xylanases contain any of three
 types of ***modifications***: (1) changing amino acids 10, 27, and
 29 of ***Trichoderma*** reesei ***xylanase*** II or the
 corresponding amino acids of another Family 11 ***xylanase***, where
 these amino acids are changed to histidine, methionine, and leucine,
 respectively; (2) ***substitution*** of amino acids in the
 N-terminal region with amino acids from another ***xylanase***
 enzyme. In a preferred embodiment, ***substitution*** of the natural
 Bacillus circulans or ***Trichoderma*** reesei ***xylanase***
 with a short ***sequence*** of amino acids from Thermomonospora
 fusca ***xylanase*** yielded chimeric xylanases with higher
 thermophilicity and alkalophilicity; (3) an extension upstream of the
 N-terminus of up to 10 amino acids. In a preferred embodiment, extension
 of the N-terminus of the ***xylanase*** with the tripeptide
 glycine-arginine-arginine improved its performance.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 69 OF 69 USPATFULL on STN

ACCESSION NUMBER: 1998:61459 USPATFULL <<LOGINID::20070110>>

TITLE: Modification of xylanase to improve thermophilicity,
 alkalophilicity and thermostability

INVENTOR(S): Sung, Wing L., Gloucester, Canada

Yaguchi, Makoto, Ottawa, Canada

Ishikawa, Kazuhiko, Tsukuba, Japan

PATENT ASSIGNEE(S): National Research Council of Canada, Ottawa, Canada
 (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5759840 19980602
 APPLICATION INFO.: US 1996-709912 19960909 (8)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Grimes, Eric
 LEGAL REPRESENTATIVE: Fitzpatrick, Cella, Harper & Scinto
 NUMBER OF CLAIMS: 17
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 26 Drawing Figure(s); 26 Drawing Page(s)
 LINE COUNT: 2394

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Producing a ***xylanase*** enzyme of superior performance in the
 bleaching of pulp. More specifically, a ***modified***
 xylanase of Family 11 that shows improved thermophilicity,
 alkalophilicity, and thermostability as compared to the natural
 xylanase. The ***modified*** xylanases contain any of three
 types of ***modifications***: (1) changing amino acids 10, 27, and
 29 of ***Trichoderma*** reesei ***xylanase*** II or the
 corresponding amino acids of another Family 11 ***xylanase***, where
 these amino acids are changed to histidine, methionine, and leucine,
 respectively; (2) ***substitution*** of amino acids in the
 N-terminal region with amino acids from another ***xylanase***
 enzyme. In a preferred embodiment, ***substitution*** of the natural
 Bacillus circulans or ***Trichoderma*** reesei ***xylanase***
 with a short ***sequence*** of amino acids from Thermomonospora
 fusca ***xylanase*** yielded chimeric xylanases with higher
 thermophilicity and alkalophilicity; (3) an extension upstream of the
 N-terminus of up to 10 amino acids. In a preferred embodiment, extension
 of the N-terminus of the ***xylanase*** with the tripeptide
 glycine-arginine-arginine improved its performance.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L1 QUE (XYLANASE OR (ENDO-1,4-BETA-XYLANASE) OR (1,4-BETA-D-XYLAN

L2 28962 S L1
L3 5184 S (GENE OR SEQUENCE OR POLYNULCEOTIDE OR CLONE OR RECOMBINANT)(
L4 730 S (MODIF? OR MUTANT# OR VARIANT#)(S) L3
L5 178 S (ADDITION OR DELETION OR SUBSTITUTION)(S)L4
L6 108 S SUBSTITUTION(S)L4
L7 66 S TRICHODERMA(S) L6
L8 70 S TRICHODERMA(S) L5
L9 69 DUP REM L8 (1 DUPLICATE REMOVED)
L10 65 DUP REM L7 (1 DUPLICATE REMOVED)

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